



CELL AND TISSUE INJURY - I
YEAR 2 COURSE 1
September 01st, 2014 – October 31nd, 2014

Coordinator of the Course 2.1 Asist. Prof., Mümtaz GÜRAN	Coordinator of the Module 2.1 Asist. Prof., Mümtaz GÜRAN
Coordinator of Multidiciplinary Students' Lab. Instructor, Dila ŞENER	Coordinator of Clinical Skill Lab. Asist. Prof., Canan ZAIMOĞLU
Coordinator of Assessment Unite Asist. Prof., Ayşe ÜLGEN, Asist. Prof., Mümtaz GÜRAN, Instructor, Dila ŞENER	Coordinator of ICS Res. LAB. Asist. Prof., Ayşe ÜLGEN
Year 2 Coordinators Assoc. Prof., Özgür Kasımay ÇAKIR & Instructor, Burak AKSU	
Module Coordinator Assoc. Prof., Özlem SARIKAYA	Introduction to Clinician Skills(ICS) Coordinators Prof., Sibel SAKARYA, Assoc. Prof., Pemra ÜNALAN
Coordinator of Multidiciplinary Students' Lab. Assoc. Prof., Betül KARADEMİR	Coordinator of Assessment Unite Asist. Prof., Cevdet NACAR
Vice-Chief Coordinators	
Assessment Asist. Prof., Cevdet NACAR	Students' Affairs Asist. Prof., Can ERZİK
Chief Coordinator Assoc. Prof., Hasan YANANLI	Coordinator of Medical Education Program Evaluation and Development Commission Prof., Berrak Ç. YEĞEN
Educational Consultant Assoc. Prof., Mehmet Ali GÜLPINAR	
Dean (EMU) Prof., Nahide GÖKÇORA	Dean (MU) Prof., Pamir ATAGÜNDÜZ

LEARNING OUTCOMES / COMPETENCIES

- A. **Clinical Care: Qualified patient care and community oriented health care**
1. Basic clinical skills
 2. The organization and management of the patient and the patient care
 3. The organization and the management of health care delivery services / system
 4. Health promotion and disease prevention
- B. **Medical Knowledge and Evidence-Based Medicine**
5. Appropriate information retrieval and management skills
 6. The integration of knowledge, critical thinking and evidence-based decision making
 7. Scientific methods and basic research skills
- C. **Professional Attitudes and Values**
8. Communication skills and effective communication with patients / patient relatives
 9. Interpersonal relationships and team working
 10. Ethical and professional values, responsibilities
 11. Individual, social and cultural values and responsibilities
 12. Reflective practice and continuing development
 13. Healthcare delivery systems, management and community oriented health care
 14. Education and counseling

PHASE-1 LEARNING OBJECTIVES

1. Understanding the normal structures and functions of human body
2. Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions
3. Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge
4. Gaining basic clinical skills by applications in simulated settings.
5. Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills
6. Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values
7. Acquisition skills in reflective thinking and practicing, being open to continuous individual / professional development.

PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMS

Year 1, Course 1: Introduction to Cell and Cellular Replication

Year 1, Course 2: Cellular Metabolism and Transport

Year 1, Course 3: Development and Organization of Human Body

Year 1, Course 4: Introduction to Nervous System and Human Behavior

Year 2, Course 1: Cell and Tissue Injury I

Year 2, Course 2: Cell and Tissue Injury II

Year 2, Course 3: Hematopoietic System and Related Disorders

Year 2, Course 4: Musculoskeletal, Integumentary Systems and Related Disorders

Year 2, Course 5: Respiratory System and Related Disorders

Year 3, Course 1: Cardiovascular System and Related Disorders

Year 3, Course 2: Gastrointestinal System, Metabolism and Related Disorders

Year 3, Course 3: Nervous System and Related Disorders

Year 3, Course : Growth, Development, Mental Health and Related Disorders

Year 3, Course 5: Urinary and Reproductive System and Related Disorders

CELL AND TISSUE INJURY - I

AIM and LEARNING OBJECTIVES of COURSE

Aim: At the end of this course, second year students will be able to broaden their basic science knowledge to include the understanding of how certain alterations in bodily processes may manifest as disease and gain fundamental knowledge about the processes underlying human diseases, as the scientific foundation for developing clinical skills.

Learning Objectives: At the end of this course, second year students will,

1. describe using proper nomenclature, the etiology, pathogenesis, structural and functional changes at cellular and tissue level;
2. describe in detail what happens to cells and tissues in response to abnormal stimuli;
3. explain the basic principles of human immune system as it relates to defense against disease (innate, humoral, cell mediated);
4. describe the principles of classifying infectious microorganisms and their pathogenic properties;
5. gain knowledge about viruses and viral pathogenesis;
6. gain knowledge about parasites and pathogenesis of parasitic diseases;
7. identify major drug classes and prototype drug(s) for each class.

ASSESSMENT SYSTEM

Module examination: Written exam at the end of the course and performance during the module

Practical examination: Practical exams at the end of course

Course examination: Written exam at the end of course

PROGRAM EVALUATION

Evaluation at the end of the course, is done both orally and by using structured evaluation forms

DEPARTMENTS PARTICIPATING IN COURSE-2.1

- Biochemistry
- Biophysics
- Child Health and Diseases
- Family Medicine
- Immunology
- Microbiology

- Nuclear Medicine
- Pathology
- Pharmacology
- Physiology
- Radiology

LECTURERS / TUTORS

Alper YILDIRIM, Assist. Professor of Physiology
Arzu İLKİ, Assoc. Professor of Microbiology
Atila KARAALP, Professor of Pharmacology
Ayşegül KARAHASAN, Professor of Microbiology
Berna LAÇIN, Assoc. Professor of Physiology
Betül KARADEMİR, Assoc. Prof. of Biochemistry
Burak AKSU, Instructor of Microbiology
Çiğdem ÇELİKEL, Professor of Pathology
Elif DAĞLI, Professor of Child Health and Diseases
Emine ÖZERİNÇ, Instructor of School of Foreign Languages and Preparatory School
Goncagül HAKLAR, Professor of Biochemistry
Güner SÖYLEDİR, Professor of Microbiology
Handan KAYA, Professor of Pathology
Hülya CABADAK, Assoc. Professor of Biophysics
İnci ALİCAN, Professor of Physiology

Mehmet AKMAN, Prof. of Public Health
Mümtaz GÜRAN, Assist. Professor of Microbiology
Mustafa Erkin ARIBAL, Prof. of Radiology
Nahide GÖKÇORA, Prof., Nuclear Medicine
Nilgün ÇERİKÇIOĞLU, Professor of Microbiology
Nurver ÜLGER, Assoc. Professor of Microbiology
Pamir ATAGÜNDÜZ, Professor of Internal Medicine
Pelin BAĞCI, Assoc. Professor of Pathology
Pınar Mega TİBER, Assist. Prof. of Biophysics
Rezzan GÜLHAN, Prof. of Pharmacology
Serap ÇİFÇİLİ, Assoc. Professor of Family Medicine
Sibel SAKARYA, Prof. of Public Health
Süheyla BOZKURT, Assoc. Professor of Pathology
Tunç AKKOÇ, Assoc. Professor of Immunology
Ufuk HASDEMİR, Professor of Microbiology
Zafer GÖREN, Professor of Pharmacology

READING / STUDYING MATERIALS

- Basics and Clinical Pharmacology (Bertram G Katzung).
- Clinical Pharmacology (Laurence DR, Bennet PN).
- Pharmacological Basis of Therapeutics (Goddman & Gilman's).
- Radiation protection, Ch.5 (Mary Alice Statkiewicz)
- Radiobiology for the radiologist (Eric J.Hall)
- Physics of Life Sciences (Alan H.Cromer)
- Clinical Biophysics (Anbar)
- Radiologic Science for Technologist (S.C.Bushong)
- Textbook of Physiology (Guyton AC).
- Basic Pathology (Stanley L. Robbins, Marcia Angel, Vinay Kumar).
- Histology and Cell Biology: an Introduction to Pathology (Abraham L. Kierszenbaum).
- Review Medical Microbiology (Ernest Jawetz et al.).
- Medical Microbiology (Cedric Mims et al.).
- Review of Medical Microbiology (Patric R. Murray, Ken S. Rosenthal).
- Cellular and Molecular Immunology 5th Edition (Abbas, Lichtman).
- Kuby Immunology 4th Edition (Goldsby, Kindt, Osborne).
- Immunobiology 6th Edition (Janeway, Travers, Walport, Schlomchik).
- Immunology, Infection and Immunity (Pier, Lyczak, Wetzler)

SUMMARY OF THE COURSE

Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Biochemistry	4		4
Biophysics	8		8
Child Health and Diseases	2		2
Family Medicine	2		2
Immunology	11		11
Internal Medicine	1		1
Microbiology	25	6	25
Nuclear Medicine	2		2
Pathology	14	3	17
Pharmacology	18		18
Physiology	5		5
Radiology	1		1
Subtotal	92	9	101
ICS-2: Basic Clinical Skills, Human in Medicine, Students Research Activity	25	0	25
ELECTIVE-2	13		
Communication in Turkish-III (Foreign Students)	20		10
TOTAL	145	25	170

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER(S)/TUTOR(S)
1. WEEK (01-05 September 2014)		
Monday	September 01	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	Introduction to the course and opening lecture	Dr.Serap Çifçili
13:40-14:30	Patient with fever and rash	Dr.Serap Çifçili
14:40-15:30	Pathophysiology of oedema formation	Dr.Berna Laçın
15:40-16:30	Pathophysiology of oedema formation	Dr.Berna Laçın
16:40-17:30	STUDY TIME	
Tuesday	September 02	
08:40-09:30	Communication in Turkish-III	Emine Özerinç
09:40-10:30	Communication in Turkish-III	Emine Özerinç
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Introduction to pharmacology	Dr.Rezzan Gülhan
14:40-15:30	General pharmacokinetic principles-1	Dr.Rezzan Gülhan
15:40-16:30	General pharmacokinetic principles-1	Dr.Rezzan Gülhan
16:40-17:30	STUDY TIME	
Wednesday	September 03	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	General pharmacokinetic principles-2	Dr.Rezzan Gülhan
11:40-12:30	General pharmacokinetic principles-2	Dr.Rezzan Gülhan
13:40-14:30	Introduction to chemotherapeutics	Dr.Rezzan Gülhan
14:40-15:30	Pharmacotherapy in parasitic infections	Dr. Rezzan Gülhan
15:40-16:30	ELECTIVE-2	
16:40-17:30	ELECTIVE-2	
Thursday	September 04	
08:40-09:30	STUDY TIME	
09:40-10:30	Communication in Turkish-III	Emine Özerinç
10:40-11:30	Communication in Turkish-III	Emine Özerinç
11:40-12:30	Normal body flora	Dr.Nilgün Çerikçioğlu
13:40-14:30	Microbial toxins	Dr. Güner Söyledir
14:40-15:30	Mechanism of viral pathogenesis	Dr. Güner Söyledir
15:40-16:30	Hepatitis viruses	Dr. Güner Söyledir
16:40-17:30	STUDY TIME	

Friday	September 05	
08:40-09:30	STUDY TIME	
09:40-10:30	Application of Nuclear medicine	Dr. Nahide Gökçora
10:40-11:30	Host parasite interactions	Dr. Güner Söyledir
11:40-12:30	Host parasite interactions	Dr. Güner Söyledir
13:40-14:30	Microbial pathogenicity and virulence	Dr.Arzu İlki
14:40-15:30	Cultivation and identification of bacteria	Dr.Arzu İlki
15:40-16:30	Microbiology of water, milk and air	Dr.Nilgün Çerikçioğlu
16:40-17:30	STUDY TIME	
2. WEEK (08-12 September 2014)		
Monday	September 08	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Communication in Turkish-III	Emine Özerinç
11:40-12:30	Communication in Turkish-III	Emine Özerinç
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	September 09	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Communication in Turkish-III	Emine Özerinç
11:40-12:30	Communication in Turkish-III	Emine Özerinç
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	September 10	
08:40-09:30	Physiology of pain	Dr. Alper Yıldırım
09:40-10:30	Prostaglandins	Dr.Betül Karademir
10:40-11:30	Prostaglandins	Dr.Betül Karademir
11:40-12:30	STUDY TIME	
13:40-14:30	Biochemical aspect of cell death	Dr.Goncagül Haklar
14:40-15:30	Biochemical aspect of cell death	Dr.Goncagül Haklar
15:40-16:30	Molecular and radiobiological behavior	Dr.Hülya Cabadak
16:40-17:30	Effects of ionizing radiation on the cell and organism	Dr.Hülya Cabadak
Thursday	September 11	

08:40-09:30	STUDY TIME	
09:40-10:30	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr.Ayşegül Karahasan
10:40-11:30	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr.Ayşegül Karahasan
11:40-12:30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA	Dr.Ayşegül Karahasan
13:40-14:30	Bioterrorism: a global threat	Dr.Ayşegül Karahasan
14:40-15:30	Introduction to Radiology and Prevention in Radiology	Dr. Mustafa Erkin Arıbal
15:40-16:30	Body temperature and its regulation	Dr. İnci Alican
16:40-17:30	Body temperature and its regulation	Dr. İnci Alican
Friday	September 12	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
3. WEEK (15-19 September 2014)		
Monday	September 15	
08:40-09:30	STUDY TIME	
09:40-10:30	Introduction to pathology	Dr. Çiğdem Çelikel
10:40-11:30	Adaptive cell reactions and abnormal accumulation	Dr. Çiğdem Çelikel
11:40-12:30	Haemodynamic disorders	Dr. Çiğdem Çelikel
13:40-14:30	Thromboembolic disease	Dr. Çiğdem Çelikel
14:40-15:30	Thromboembolic disease	Dr. Çiğdem Çelikel
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
	General principles of macroscopic evaluation (slide lecture)	
Tuesday	September 16	
08:40-09:30	Communication in Turkish-III	Emine Özerinç
09:40-10:30	Communication in Turkish-III	Emine Özerinç
10:40-11:30	Acute inflammatory response	Dr. Süheyla Bozkurt
11:40-12:30	Acute inflammatory response	Dr. Süheyla Bozkurt
13:40-14:30	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Pamir Atagündüz
14:40-15:30	Basic principles of immunopathology	Dr. Süheyla Bozkurt
15:40-16:30	Pathology of hypersensitivity reactions	Dr. Süheyla Bozkurt
16:40-17:30	Pathology of autoimmune disorders	Dr. Süheyla Bozkurt

Wednesday	September 17	
08:40-09:30	ELECTIVE-2	
09:40-10:30	ELECTIVE-2	
10:40-11:30	Cell injury and cell death	Dr. Handan Kaya
11:40-12:30	Cell injury and cell death	Dr. Handan Kaya
13:40-14:30	Chronic inflammatory response	Dr. Handan Kaya
14:40-15:30	Transplant pathology	Dr. Handan Kaya
15:40-16:30	Amiloidosis	Dr. Handan Kaya
16:40-17:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Ufuk Hasdemir
Thursday	September 18	
08:40-09:30	RNA viruses: Retroviruses and HIV	Dr. Ufuk Hasdemir
09:40-10:30	DNA viruses: Herpes viruses	Dr. Ufuk Hasdemir
10:40-11:30	STUDY TIME	
11:40-12:30	Chemokines, Neutrophils and Monocytes in Innate Immunity	Dr.Tunç Akkoç
13:40-14:30	Immunoglobulins: Structure and Function, Antigen & antibody interactions	Dr.Tunç Akkoç
14:40-15:30	Development of T cells, T lymphocyte signalling mechanisms and activation	Dr.Tunç Akkoç
15:40-16:30	Cytokines	Dr.Tunç Akkoç
16:40-17:30	Cytokines	Dr.Tunç Akkoç
Friday	September 19	
08:40-09:30	STUDY TIME	
09:40-10:30	Introduction to innate immune system	Dr.Tunç Akkoç
10:40-11:30	Bridging Innate and Adaptive Immunity Dendritic cells, NK cells, NKT cells and other Innate like T and B lineages	Dr.Tunç Akkoç
11:40-12:30	Structure and function of complement system	Dr.Tunç Akkoç
13:40-14:30	B Lymphocyte development and Biology	Dr.Tunç Akkoç
14:40-15:30	Immune response to extracellular and intracellular infections	Dr.Tunç Akkoç
15:40-16:30	Immune responses to extracellular and intracellular infections	Dr.Tunç Akkoç
16:40-17:30	STUDY TIME	
4. WEEK (22-26 September 2014)		
Monday	September 22	
08:40-09:30	STUDY TIME	
09:40-10:30	Radioactivity: the decay law; physical half-life, biological half life	Dr.Pınar Mega Tiber
10:40-11:30	Radioactivity: the decay law; physical half-life, biological half life	Dr.Pınar Mega Tiber
11:40-12:30	Types of radiation	Dr. Pınar Mega Tiber
13:40-14:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber
14:40-15:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber
15:40-16:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber
16:40-17:30	STUDY TIME	

Tuesday	September 23	
08:40-09:30	ELECTIVE-2	
09:40-10:30	ELECTIVE-2	
10:40-11:30	Tissue and organ response to radiation and genetic effects of radiation	Dr. Nahide Gökçora
11:40-12:30	Routes of drug administration	Dr. Atila Karaalp
13:40-14:30	Mechanisms of clinically important drug interactions	Dr. Atila Karaalp
14:40-15:30	Health effects of tobacco	Dr. Elif Dağlı
15:40-16:30	Health effects of tobacco	Dr. Elif Dağlı
16:40-17:30	STUDY TIME	
Wednesday	September 24	
08:40-09:30	Communication in Turkish-III	Emine Özerinç
09:40-10:30	Communication in Turkish-III	Emine Özerinç
10:40-11:30	General principles of macroscopic evaluation (slide lecture)	Dr. Pelin Bağcı
11:40-12:30	Tissue renewal and repair: regeneration, healing, and fibrosis	Dr. Pelin Bağcı
13:40-14:30	Pathology LAB: Cell response to injury and adaptive cell reactions Pathology	Dr. Pelin Bağcı
14:40-15:30	Pathology LAB: Changes in the size, consistency, colour, and composition of organs Pathology	Dr. Pelin Bağcı
15:40-16:30	Pathology LAB: Cell response to injury and adaptive cell reactions Pathology	Dr. Pelin Bağcı
16:40-17:30	Pathology LAB: Cell response to injury and adaptive cell reactions Pathology	Dr. Pelin Bağcı
Thursday	September 25	
08:40-09:30	STUDY TIME	
09:40-10:30	Communication in Turkish-III	Emine Özerinç
10:40-11:30	Communication in Turkish-III	Emine Özerinç
11:40-12:30	Basic principles of drug toxicity	Dr. Zafer Gören
13:40-14:30	Mechanism of drug action	Dr. Zafer Gören
14:40-15:30	Mechanism of drug action	Dr. Zafer Gören
15:40-16:30	Pharmacotherapy in viral infections	Dr. Zafer Gören
16:40-17:30	STUDY TIME	
Friday	September 26	
08:40-09:30	STUDY TIME	
09:40-10:30	Autocoids	Dr. Zafer Gören
10:40-11:30	Autocoids	Dr. Zafer Gören
11:40-12:30	Autocoids	Dr. Zafer Gören
13:40-14:30	Antiseptics and disinfectants	Dr. Zafer Gören
14:40-15:30	Drug induced immune response and antiallergic treatment	Dr. Zafer Gören

15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
5. WEEK (29 September- 3 October 2014)		
Monday	September 29	
08:40-09:30	STUDY TIME	
09:40-10:30	ICS-2:Student Research Activity -Introduction to ICS-2 Programme	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
10:40-11:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
11:40-12:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
13:40-14:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
14:40-15:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
15:40-16:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
16:40-17:30	STUDY TIME	
Tuesday	September 30	
08:40-09:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
09:40-10:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
10:40-11:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
11:40-12:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
13:40-14:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
14:40-15:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
15:40-16:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
16:40-17:30	STUDY TIME	
Wednesday	October 01	
08:40-09:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
09:40-10:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
10:40-11:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
11:40-12:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
13:40-14:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen

14:40-15:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
15:40-16:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
16:40-17:30	STUDY TIME	
Thursday	October 02	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	October 03	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
6. WEEK (06-10 October 2014)		
Monday	October 06	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Communication in Turkish-III	Emine Özerinç
14:40-15:30	Communication in Turkish-III	Emine Özerinç
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	October 07	
08:40-09:30	Communication in Turkish-III	Emine Özerinç
09:40-10:30	Communication in Turkish-III	Emine Özerinç
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Communication in Turkish-III	Emine Özerinç

14:40-15:30	Communication in Turkish-III	Emine Özerinç
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	October 08	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	ELECTIVE-2	
13:40-14:30	ELECTIVE-2	
14:40-15:30	ELECTIVE-2	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	October 09	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	ELECTIVE-2	
14:40-15:30	ELECTIVE-2	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	October 10	
08:40-09:30	STUDY TIME	
09:40-10:30	ICS-2:Research Proposal Presentations	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
10:40-11:30	ICS-2:Research Proposal Presentations	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
11:40-12:30	ICS-2:Research Proposal Presentations	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
13:40-14:30	ICS-2:Research Proposal Presentations	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
14:40-15:30	ICS-2:Research Proposal Presentations	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
15:40-16:30	ICS-2:Research Proposal Presentations	Dr. Sibel Sakarya, Dr. Mehmet Akman, Dr. Ayşe Ülgen
16:40-17:30	STUDY TIME	

7. WEEK (13-17 October 2014)

7. WEEK (13-17 October 2014)		
Monday	October 13	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	October 14	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	October 15	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	October 16	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	October 17	

08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
8. WEEK (20-24 October 2014)		
Monday	October 20	
08:40-09:30	STUDY TIME	
09:40-10:30	Pathogenesis of parasitic disease	Dr. Nurver Ülger
10:40-11:30	Blood and tissue protozoa	Dr. Nurver Ülger
11:40-12:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Burak Aksu
13:40-14:30	Laboratory diagnosis of viral infections	Dr. Burak Aksu
14:40-15:30	Laboratory diagnosis of viral infections	Dr. Burak Aksu
15:40-16:30	Microbiology LAB: Normal body flora	Dr. Nurver Ülger & Dr.Mümtaz Güran
16:40-17:30	Microbiology LAB: Normal body flora	Dr. Burak Aksu & Dr.Mümtaz Güran
Tuesday	October 21	
08:40-09:30	Intestinal and urogenital protozoa	Dr. Nurver Ülger
09:40-10:30	Intestinal and tissue nematodes	Dr. Nurver Ülger
10:40-11:30	Microbiology LAB: Examination of protozoa	Dr. Nurver Ülger & Dr.Mümtaz Güran
11:40-12:30	Microbiology LAB: Examination of protozoa	Dr. Burak Aksu & Dr.Mümtaz Güran
13:40-14:30	Cestodes and Trematodes	Dr. Nurver Ülger
14:40-15:30	Intestinal and tissue nematodes	Dr. Nurver Ülger
15:40-16:30	Microbiology LAB: Examination of helminths and medically important arthropods	Dr. Nurver Ülger & Dr.Mümtaz Güran
16:40-17:30	Microbiology LAB: Examination of helminths and medically important arthropods	Dr. Burak Aksu & Dr.Mümtaz Güran
Wednesday	October 22	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	

16:40-17:30	STUDY TIME	
Thursday	October 23	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	October 24	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
9. WEEK (27-31 October 2014)		
Monday	October 27	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Tuesday	October 28	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		

Wednesday	October 29	
08:40-09:30	HOLIDAY	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Thursday	October 30	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Friday	October 31	
08:40-09:30		
09:40-10:30	THEORETICAL EXAM	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		